

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	0.00	Rating **	A	Issue No.	39
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				°
					°
DWR ID	DWR_RD1602_01_s _ 2012_39				
Action/Comments					
Inspector Comments: The LMA has all the O&M manuals.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	77
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD1602_01_s _ 2012_77				
Action/Comments					
Inspector Comments: The LMA has enough flood materials in case of an incident.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	97	
LM End	0.00	Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Flood Preparedness & Training				°	°
					°	°
DWR ID	DWR_RD1602_01_s _ 2012_97					
Action/Comments						
Inspector Comments: The LMA has solid understanding and most of them have flood preparedness training.						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	0.69	Rating **	C	Issue No.	26
LM End	0.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478792 °	37.478792 °
				-121.073740 °	-121.073740 °
DWR ID	DWR_RD1602_01_f_2013_26				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	0.77	Rating **	A/W	Issue No.	72
LM End	0.77	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			37.477965 °	37.477965 °
				-121.072595 °	-121.072595 °
DWR ID	DWR_RD1602_01_s_2012_72				
Action/Comments					
Inspector Comments: Sediment around the flap gate was cleaned, and the area should be watched for future sediment deposits.					

Photo 1 of 4 : SP_2015_RD1602_110_72_20150313_00042.jpg



View of the flap gate on the waterside of the levee during fall 2014 inspection.

LM Start	0.77	Rating **	A/W	Issue No.	72 (cont)
LM End	0.77	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : SP_2015_RD1602_110_72_20150313_00043.jpg



Debris were obstructing the flap gate from closing completely. The picture was taken from toe of waterside of the levee during the fall 2013 inspection.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	0.77	Rating **	A/W	Issue No.	72 (cont)
LM End	0.77	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			37.477965 °	37.477965 °
				-121.072595 °	-121.072595 °
DWR ID	DWR_RD1602_01_s _ 2012_72				
Action/Comments					
Inspector Comments: Sediment around the flap gate was cleaned, and the area should be watched for future sediment deposits.					

Photo 3 of 4 : SP_2015_RD1602_110_72_20150313_00044.jpg



Debris and sediments were obstructing the flap gate from closing completely. The picture was taken from toe of waterside of the levee during the fall 2012 inspection.

Photo 4 of 4 : SP_2015_RD1602_110_72_20150313_00045.jpg



Debris and sediments were obstructing the flap gate. The picture was taken from toe of waterside of the levee looking towards the crown. This picture was taken during the fall 2011 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	0.82	Rating **	M	Issue No.	76
LM End	0.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.477907 °	37.477907 °
				-121.071754 °	-121.071754 °
DWR ID	DWR_RD1602_01_s_2012_76				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 3 : SP_2015_RD1602_110_76_20150313_00048.jpg



Updated picture of the rodent holes on the waterside of the levee looking upstream during spring 2014 inspection.

LM Start	0.82	Rating **	M	Issue No.	76 (cont)
LM End	0.82	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP_2015_RD1602_110_76_20150313_00049.jpg



Updated picture of the rodent hole on the waterside slope of the levee looking downstream.

LM Start	0.82	Rating **	M	Issue No.	76 (cont)
LM End	0.82	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP_2015_RD1602_110_76_20150313_00050.jpg



A rodent hole was found on the waterside of the levee looking downstream.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	1.03	Rating **	M	Issue No.	55
LM End	1.03	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Concrete Tilting / Settlement			37.478678 °	37.478678 °
				-121.068305 °	-121.068305 °
DWR ID	DWR_RD1602_01_s_2012_55				
Action/Comments					
Inspector Comments: The outlet headwall is tilting away from the pipe rendering the existing flap gate ineffective. Repair gap between pipe and headwall and stabilize headwall to prevent further damage.					

Photo 1 of 3 : SP_2015_RD1602_110_55_20150406_00079.jpg



View of the broken headwall on the waterside of the levee during spring 2015 inspection.

LM Start	1.03	Rating **	M	Issue No.	55 (cont)
LM End	1.03	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP_2015_RD1602_110_55_20150313_00029.jpg



Separation of outfall structure from the outlet pipe at LM 1.04.

LM Start	1.03	Rating **	M	Issue No.	55 (cont)
LM End	1.03	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP_2015_RD1602_110_55_20150313_00028.jpg



Additional view of outfall structure at LM 1.04.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	1.05	Rating **	M	Issue No.	37
LM End	1.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.478567 °	37.478567 °
				-121.067847 °	-121.067847 °
DWR ID	DWR_RD1602_01_s_2012_37				
Action/Comments					
Repair slope instability. Inspector Comments: Small amount of slumping at waterside toe of the levee.					

Photo 1 of 3 : SP_2015_RD1602_110_37_20150313_00015.jpg



Small amount of slumping at water toe.

LM Start	1.05	Rating **	M	Issue No.	37 (cont)
LM End	1.05	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP_2015_RD1602_110_37_20150313_00016.jpg



Updated picture of the depression at the waterside toe of the levee. The picture was taken from the crown of the levee looking upstream.

LM Start	1.05	Rating **	M	Issue No.	37 (cont)
LM End	1.05	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP_2015_RD1602_110_37_20150313_00017.jpg



Depression at the waterside slope of the levee during Spring 2011 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	1.11	Rating **	M	Issue No.	11
LM End	1.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478371 °	37.478371 °
				-121.066793 °	-121.066793 °
DWR ID	DWR_RD1602_01_s _ 2013_11				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 2 : SP_2015_RD1602_110_11_20150313_00002.jpg



Rodent holes were found on the waterside slope of the levee looking downstream.

LM Start	1.11	Rating **	M	Issue No.	11 (cont)
LM End	1.11	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2015_RD1602_110_11_20150313_00003.jpg



A rodent hole was found on the waterside toe of the levee looking downstream.

LM Start	1.14	Rating **	M	Issue No.	65
LM End	1.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478285 °	37.478285 °
				-121.066299 °	-121.066299 °
DWR ID	DWR_RD1602_01_f _ 2012_65				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 2 : SP_2015_RD1602_110_65_20150313_00037.jpg



Updated picture of rodent hole on the waterside slope of the levee looking upstream during fall 2013 inspection.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
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LM Start	1.14	Rating **	M	Issue No.	65 (cont)
LM End	1.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478285 °	37.478285 °
				-121.066299 °	-121.066299 °
DWR ID	DWR_RD1602_01_f_2012_65				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 2 of 2 : SP_2015_RD1602_110_65_20150313_00038.jpg



Rodent holes were found on the waterside toe of the levee. The picture was taken from toe of the levee looking towards the crown.

LM Start	1.19	Rating **	M	Issue No.	79
LM End	1.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478324 °	37.478324 °
				-121.065444 °	-121.065444 °
DWR ID	DWR_RD1602_01_s_2012_79				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 2 : SP_2015_RD1602_110_79_20150313_00051.jpg



Updated picture of the rodent holes on the waterside toe of the levee during spring 2014 inspection.

LM Start	1.19	Rating **	M	Issue No.	79 (cont)
LM End	1.19	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2015_RD1602_110_79_20150313_00052.jpg



A rodent hole was found on the waterside toe of the levee looking downstream.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	1.46	Rating **	C	Issue No.	31
LM End	1.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478938 °	37.478938 °
				-121.061063 °	-121.061063 °
DWR ID	DWR_RD1602_01_f_2014_31				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	1.66	Rating **	M	Issue No.	20
LM End	1.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.477007 °	37.477007 °
				-121.058372 °	-121.058372 °
DWR ID	DWR_RD1602_01_s_2015_20				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_20_20150406_00080.jpg



View of rodent holes on the landside of the levee looking upstream.

LM Start	1.69	Rating **	M	Issue No.	18
LM End	1.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.476576 °	37.476576 °
				-121.058174 °	-121.058174 °
DWR ID	DWR_RD1602_01_s_2013_18				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_18_20150313_00007.jpg



A rodent hole was found on the waterside toe of the levee looking downstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	1.72	Rating **	M	Issue No.	32
LM End	1.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.476214 °	37.476214 °
				-121.058025 °	-121.058025 °
DWR ID	DWR_RD1602_01_f_2014_32				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_32_20150313_00012.jpg



View of the rodent holes on the waterside of the levee looking from the toe.

LM Start	1.99	Rating **	C	Issue No.	33
LM End	2.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.472267 °	37.467739 °
				-121.057895 °	-121.047531 °
DWR ID	DWR_RD1602_01_f_2014_33				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	2.00	Rating **	M	Issue No.	21
LM End	3.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.472108 °	37.462338 °
				-121.057862 °	-121.041585 °
DWR ID	DWR_RD1602_01_s_2015_21				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	2.10	Rating **	M	Issue No.	85
LM End	2.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.470858 °	37.470858 °
				-121.057140 °	-121.057140 °
DWR ID	DWR_RD1602_01_s _ 2012_85				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 2 : SP_2015_RD1602_110_85_20150313_00053.jpg



Updated picture of a rodent hole on the waterside shoulder of the levee looking upstream during fall 2013 inspection.

LM Start	2.10	Rating **	M	Issue No.	85 (cont)
LM End	2.10	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2015_RD1602_110_85_20150313_00054.jpg



A rodent hole was found on the waterside shoulder of the levee looking upstream.

LM Start	2.17	Rating **	C	Issue No.	86
LM End	2.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.470323 °	37.470323 °
				-121.056148 °	-121.056148 °
DWR ID	DWR_RD1602_01_s _ 2012_86				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	2.27	Rating **	M	Issue No.	35
LM End	2.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.470290 °	37.470290 °
				-121.054278 °	-121.054278 °
DWR ID	DWR_RD1602_01_f_2013_35				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_35_20150313_00013.jpg



Animal holes were found on the waterside shoulder of the levee looking upstream.

LM Start	2.97	Rating **	M	Issue No.	23
LM End	2.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.464955 °	37.464955 °
				-121.044415 °	-121.044415 °
DWR ID	DWR_RD1602_01_s_2015_23				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_23_20150406_00081.jpg



View of rodent holes on the landside slope of the levee looking upstream.

LM Start	3.30	Rating **	M	Issue No.	40
LM End	3.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.461140 °	37.461140 °
				-121.041785 °	-121.041785 °
DWR ID	DWR_RD1602_01_f_2014_40				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	3.44	Rating **	M	Issue No.	24
LM End	3.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.459552 °	37.459552 °
				-121.043315 °	-121.043315 °
DWR ID	DWR_RD1602_01_s_2015_24				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_24_20150406_00082.jpg



Rodent holes were found on the waterside toe of the levee looking downstream.

LM Start	3.49	Rating **	M	Issue No.	25
LM End	3.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.458903 °	37.458903 °
				-121.043775 °	-121.043775 °
DWR ID	DWR_RD1602_01_s_2015_25				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_25_20150406_00083.jpg



Animal holes were found on the waterside of the levee looking upstream.

LM Start	3.49	Rating **	M	Issue No.	106
LM End	3.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.458810 °	37.458810 °
				-121.043850 °	-121.043850 °
DWR ID	DWR_RD1602_01_f_2012_106				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_106_20150313_00059.jpg



Rodent holes were found on the waterside slope of the levee looking downstream.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	3.51	Rating **	M	Issue No.	27
LM End	3.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.458572 °	37.458572 °
				-121.043957 °	-121.043957 °
DWR ID	DWR_RD1602_01_s _ 2015_27				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	3.57	Rating **	M	Issue No.	28
LM End	3.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.457785 °	37.452877 °
				-121.044490 °	-121.041862 °
DWR ID	DWR_RD1602_01_s _ 2015_28				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	3.62	Rating **	M	Issue No.	30
LM End	3.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.457072 °	37.457072 °
				-121.044687 °	-121.044687 °
DWR ID	DWR_RD1602_01_s _ 2015_30				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	3.68	Rating **	M	Issue No.	34
LM End	3.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.456377 °	37.452877 °
				-121.044423 °	-121.041862 °
DWR ID	DWR_RD1602_01_s_2015_34				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	3.80	Rating **	M	Issue No.	15
LM End	3.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.454872 °	37.454872 °
				-121.043370 °	-121.043370 °
DWR ID	DWR_RD1602_01_s_2012_15				
Action/Comments					
Garbage					

Photo 1 of 2 : SP_2015_RD1602_110_15_20150313_00004.jpg



Debris was located on the landside of the levee. The picture was taken from the crown looking upstream.

Photo 2 of 2 : SP_2015_RD1602_110_15_20150313_00005.jpg



Garbage was found on the landside of the levee. The picture was taken from the crown looking upstream.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	3.88	Rating **	M	Issue No.	94
LM End	3.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.453891 °	37.453891 °
				-121.042629 °	-121.042629 °
DWR ID	DWR_RD1602_01_s _ 2012_94				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_94_20150313_00056.jpg



Rodent holes were found on the waterside toe of the levee looking upstream.

LM Start	3.93	Rating **	M	Issue No.	62
LM End	3.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.453216 °	37.453216 °
				-121.042127 °	-121.042127 °
DWR ID	DWR_RD1602_01_s _ 2012_62				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: Significant damage to USACE constructed seepage berm due to human activity.					

Photo 1 of 1 : SP_2015_RD1602_110_62_20150313_00034.jpg



Repair damage to USACE constructed seepage berm by pedestrian and cycle traffic at LM 3.96.

LM Start	3.96	Rating **	M	Issue No.	47
LM End	3.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.452877 °	37.452877 °
				-121.041862 °	-121.041862 °
DWR ID	DWR_RD1602_01_s _ 2015_47				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_47_20150406_00084.jpg



Rodent holes were found on the waterside of the levee looking upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	3.99	Rating **	M	Issue No.	49
LM End	3.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.452518 °	37.452518 °
				-121.041663 °	-121.041663 °
DWR ID	DWR_RD1602_01_s _ 2015_49				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	4.00	Rating **	M	Issue No.	51
LM End	4.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.452370 °	37.452370 °
				-121.041482 °	-121.041482 °
DWR ID	DWR_RD1602_01_s _ 2015_51				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_51_20150406_00085.jpg



A number of rodent holes were found on the waterside slope of the levee.

LM Start	4.01	Rating **	M	Issue No.	53
LM End	4.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.452242 °	37.452242 °
				-121.041373 °	-121.041373 °
DWR ID	DWR_RD1602_01_s _ 2015_53				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_53_20150406_00086.jpg



A rodent hole was found on the waterside shoulder of the levee looking downstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	4.09	Rating **	M	Issue No.	41
LM End	4.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.451344 °	37.451344 °
				-121.040415 °	-121.040415 °
DWR ID	DWR_RD1602_01_f_2014_41				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_41_20150313_00018.jpg



View of a rodent hole on the waterside toe of the levee during fall 2014 inspection.

LM Start	4.12	Rating **	M	Issue No.	17
LM End	4.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.451051 °	37.451051 °
				-121.040109 °	-121.040109 °
DWR ID	DWR_RD1602_01_s_2012_17				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_17_20150313_00006.jpg



Rodent hole was found on the waterside of the levee. The picture was taken from the crown looking upstream.

LM Start	4.19	Rating **	M	Issue No.	190
LM End	4.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.450241 °	37.450241 °
				-121.039421 °	-121.039421 °
DWR ID	DWR_RD1602_01_s_2014_190				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_190_20150313_00062.jpg



A rodent hole was found on the waterside shoulder of the levee looking upstream.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	4.19	Rating **	M	Issue No.	44
LM End	4.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.450195 °	37.450195 °
				-121.039406 °	-121.039406 °
DWR ID	DWR_RD1602_01_f_2014_44				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_44_20150313_00021.jpg



A rodent hole was found on the landside shoulder of the levee looking upstream.

LM Start	4.19	Rating **	M	Issue No.	46
LM End	4.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.450195 °	37.450195 °
				-121.039406 °	-121.039406 °
DWR ID	DWR_RD1602_01_f_2014_46				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_46_20150313_00023.jpg



View of the rodent holes on the waterside slope of the levee. The picture was taken from the toe of the levee during fall 2014 inspection.

LM Start	4.20	Rating **	M	Issue No.	56
LM End	4.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.450088 °	37.450088 °
				-121.039307 °	-121.039307 °
DWR ID	DWR_RD1602_01_s_2015_56				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	4.20	Rating **	M	Issue No.	57
LM End	4.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.450088 °	37.450088 °
				-121.039307 °	-121.039307 °
DWR ID	DWR_RD1602_01_s _ 2015_57				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_57_20150406_00087.jpg



Rodent holes were found on the waterside of the levee looking upstream.

LM Start	4.21	Rating **	M	Issue No.	58
LM End	4.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.450008 °	37.450008 °
				-121.039235 °	-121.039235 °
DWR ID	DWR_RD1602_01_s _ 2015_58				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	4.29	Rating **	M	Issue No.	191
LM End	4.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.448987 °	37.448987 °
				-121.038574 °	-121.038574 °
DWR ID	DWR_RD1602_01_s _ 2014_191				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_191_20150313_00063.jpg



A rodent hole was found on the waterside toe of the levee looking downstream.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	4.32	Rating **	M	Issue No.	192
LM End	4.32	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.448474 °	37.448474 °
				-121.038265 °	-121.038265 °
DWR ID	DWR_RD1602_01_s_2014_192				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	4.34	Rating **	M	Issue No.	52
LM End	4.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.448327 °	37.448327 °
				-121.038192 °	-121.038192 °
DWR ID	DWR_RD1602_01_f_2012_52				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_52_20150313_00026.jpg



A rodent hole was found on the waterside toe of the levee looking downstream.

LM Start	4.35	Rating **	M	Issue No.	109
LM End	4.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.448076 °	37.448076 °
				-121.038037 °	-121.038037 °
DWR ID	DWR_RD1602_01_f_2012_109				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 2 : SP_2015_RD1602_110_109_20150313_00060.jpg



Updated pictures of rodent holes were found on the waterside toe of the levee looking upstream.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	4.35	Rating **	M	Issue No.	109 (cont)
LM End	4.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.448076 °	37.448076 °
				-121.038037 °	-121.038037 °
DWR ID	DWR_RD1602_01_f_2012_109				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 2 of 2 : SP_2015_RD1602_110_109_20150313_00061.jpg



A rodent hole was found on the waterside toe of the levee looking downstream.

LM Start	4.36	Rating **	M	Issue No.	60
LM End	4.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.448033 °	37.448033 °
				-121.037955 °	-121.037955 °
DWR ID	DWR_RD1602_01_s_2015_60				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_60_20150406_00088.jpg



Animal holes were found on the waterside slope of the levee looking upstream.

LM Start	4.43	Rating **	M	Issue No.	48
LM End	4.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.447098 °	37.447098 °
				-121.037724 °	-121.037724 °
DWR ID	DWR_RD1602_01_f_2014_48				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_48_20150313_00024.jpg



View of a rodent hole on the waterside slope of the levee looking from the toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	4.59	Rating **	M	Issue No.	68
LM End	4.59	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.444838 °	37.444838 °
				-121.037687 °	-121.037687 °
DWR ID	DWR_RD1602_01_s _ 2015_68				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_68_20150406_00089.jpg



A number of rodent holes were found on the waterside slope of the levee looking upstream.

LM Start	4.59	Rating **	M	Issue No.	196
LM End	4.59	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.444762 °	37.444762 °
				-121.037707 °	-121.037707 °
DWR ID	DWR_RD1602_01_s _ 2014_196				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_196_20150313_00064.jpg



Rodent holes were found on the waterside slope of the levee.

LM Start	4.61	Rating **	M	Issue No.	69
LM End	4.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.444592 °	37.444592 °
				-121.037810 °	-121.037810 °
DWR ID	DWR_RD1602_01_s _ 2015_69				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_69_20150406_00090.jpg



Rodent holes were found on the waterside slope of the levee looking upstream.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	4.67	Rating **	M	Issue No.	71
LM End	4.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.443737 °	37.443737 °
				-121.037905 °	-121.037905 °
DWR ID	DWR_RD1602_01_s _ 2015_71				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	4.68	Rating **	M	Issue No.	73
LM End	4.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.443617 °	37.443617 °
				-121.037783 °	-121.037783 °
DWR ID	DWR_RD1602_01_s _ 2015_73				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	4.77	Rating **	M	Issue No.	74
LM End	4.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.442465 °	37.442465 °
				-121.036947 °	-121.036947 °
DWR ID	DWR_RD1602_01_s _ 2015_74				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	4.88	Rating **	M	Issue No.	78
LM End	5.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.441023 °	37.435663 °
				-121.036965 °	-121.035438 °
DWR ID	DWR_RD1602_01_s _ 2015_78				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	4.88	Rating **	M	Issue No.	80
LM End	5.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.441023 °	37.435662 °
				-121.036965 °	-121.035438 °
DWR ID	DWR_RD1602_01_s _ 2015_80				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	5.09	Rating **	M	Issue No.	199
LM End	5.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.438165 °	37.438165 °
				-121.037073 °	-121.037073 °
DWR ID	DWR_RD1602_01_s _ 2014_199				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_199_20150313_00065.jpg



Rodent holes were found on the waterside toe of the levee looking upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	5.10	Rating **	U	Issue No.	81
LM End	5.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.437903 °	37.437903 °
				-121.037040 °	-121.037040 °
DWR ID	DWR_RD1602_01_s_2015_81				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_81_20150406_00091.jpg



A few animal holes were found on the waterside slope of the levee looking upstream.

LM Start	5.25	Rating **	M	Issue No.	202
LM End	5.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.436041 °	37.436041 °
				-121.035868 °	-121.035868 °
DWR ID	DWR_RD1602_01_s_2014_202				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : SP_2015_RD1602_110_202_20150313_00066.jpg



Erosion was found on the landside slope of the levee looking upstream.

LM Start	5.29	Rating **	M	Issue No.	75
LM End	5.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.435555 °	37.433277 °
				-121.035362 °	-121.033318 °
DWR ID	DWR_RD1602_01_s_2012_75				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 2 : SP_2015_RD1602_110_75_20150313_00046.jpg



Vegetation was found on the waterside slope of the levee looking upstream during fall 2013 inspection.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	5.29	Rating **	M	Issue No.	75 (cont)
LM End	5.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.435555 °	37.433277 °
				-121.035362 °	-121.033318 °
DWR ID	DWR_RD1602_01_s _ 2012_75				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 2 of 2 : SP_2015_RD1602_110_75_20150313_00047.jpg



Overgrown vegetation was found on the waterside slope of the levee looking upstream.

LM Start	5.30	Rating **	M	Issue No.	102
LM End	5.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.435533 °	37.435533 °
				-121.035371 °	-121.035371 °
DWR ID	DWR_RD1602_01_s _ 2012_102				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : SP_2015_RD1602_110_102_20150313_00057.jpg



View of significant damage and erosion to the landward slope looking upstream.

LM Start	5.32	Rating **	M	Issue No.	61
LM End	5.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.435236 °	37.433660 °
				-121.035271 °	-121.033838 °
DWR ID	DWR_RD1602_01_s _ 2012_61				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 2 : SP_2015_RD1602_110_61_20150313_00032.jpg



Updated picture of vegetation on the landside of the levee. The picture was taken from the crown looking upstream during fall 2013 inspection.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	5.32	Rating **	M	Issue No.	61 (cont)
LM End	5.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.435236 °	37.433660 °
				-121.035271 °	-121.033838 °
DWR ID	DWR_RD1602_01_s _ 2012_61				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 2 of 2 : SP_2015_RD1602_110_61_20150313_00033.jpg



Vegetation was obstructing the view of the landside of the levee. The picture was taken from the crown looking upstream.

LM Start	5.35	Rating **	M	Issue No.	204
LM End	5.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.434845 °	37.434845 °
				-121.035100 °	-121.035100 °
DWR ID	DWR_RD1602_01_s _ 2014_204				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_204_20150313_00067.jpg



An animal hole was found on the waterside shoulder of the levee looking downstream.

LM Start	5.36	Rating **	M	Issue No.	105
LM End	5.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.434699 °	37.434699 °
				-121.035063 °	-121.035063 °
DWR ID	DWR_RD1602_01_s _ 2012_105				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : SP_2015_RD1602_110_105_20150313_00058.jpg



View of tilling into the landward slope of the levee looking upstream. This slope has also been significantly damaged by rodent activity.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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